AWS/PCS Duplexer, BL-42D

Duplexer for 1900 MHz PCS and AWS-1/AWS-3, 20W
1710-1915/1930-2180 MHz, 7/16 & 4.3-10
Rev. B

- Combines or Splits Tx and Rx Signals for 1900 MHz PCS and AWS-1/AWS-3 systems
- -161 dBC specified PIM
- High Isolation
- Low Insertion Loss
- Up to 20W power
- IP67, RoHS compliant
- 7-16 DIN or 4.3-10 connectors

Microlab Duplexer Model BL-42D allows combination and separation of the Tx and Rx signals. This cavity filter operates in 1900 MHz PCS bands, including G block, along with 2100 MHz AWS-1 and AWS-3 bands. Units provide high isolation, and low insertion loss.

Attention to mechanical design, ensures low loss, and high reliability.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Connectors Female</th>
<th>Weight. nom lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL-42D</td>
<td>7/16 DIN</td>
<td>7.8 (3.5)</td>
</tr>
<tr>
<td>BL-42E</td>
<td>4.3-10</td>
<td>7.8 (3.5)</td>
</tr>
</tbody>
</table>

Rx Passband: 1710-1780/1850-1915 MHz (Rx Port)
Tx Passband: 1930-1995/2110-2180 MHz (Tx Port)
Insertion Loss: 1.0 dB typ., 1.2 dB max.
Return Loss, all ports: 19 dB min.
PIM (Intermod): -161 dBc (measured using two +43 dBm tones)
Isolation: >50dB (between Tx/Rx bands)
Power/Input: 20 W avg., 1 kW peak
Impedance: 50Ω nominal
Environment: -40°C to +65°C, IP67
Lightning Protection:
Common Port 8/20µs, 20kA; 10/350µs, 3kA
Finish: Connectors: Triplate
Housing Finish: Gray Paint

Note: Specifications are subject to change without prior notification.

18NOV2015